

IN THE CLAIMS:

Please add new claims 22-24, and cancel claims 20 and 21.

This listing of claims will replace all prior versions, and listings of the claims in the application.

Listing of the claims

1. **(Original)** A composition comprising:
an isolated nucleic acid molecule that encodes an immunogen; and
an isolated nucleic acid molecule that encodes one or more proteins of selected from the group consisting of: Fos, c-jun, Sp-1, Ap-1, Ap-2, p38, p65Rel, MyD88, IRAK, TRAF6, IκB, Inactive NIK, SAP K, SAP-1, JNK, interferon response genes, NFκB, Bax, TRAIL, TRAILrec, TRAILrecDRC5, TRAIL-R3, TRAIL-R4, RANK, RANK LIGAND, Ox40, Ox40 LIGAND, NKG2D, MICA, MICB, NKG2A, NKG2B, NKG2C, NKG2E, NKG2F, TAP1, TAP2 and functional fragments thereof.
2. **(Original)** The composition of claim 1 wherein said nucleic acid molecules are plasmids.
3. **(Original)** The composition of claim 1 wherein said immunogen is a pathogen antigen, a cancer-associated antigen or an antigen linked to cells associated with autoimmune diseases.
4. **(Original)** The composition of claim 3 wherein said immunogen is a pathogen antigen.
5. **(Original)** The composition of claim 4 wherein said immunogen is a herpes simplex antigen.

6. **(Original)** The composition of claim 5 wherein said herpes simplex antigen is HSV2gD.
7. **(Original)** A composition comprising an isolated nucleic acid molecule comprising a nucleotide sequence that encodes an immunogen; and a nucleotide sequence that encodes one or more proteins of selected from the group consisting of: Fos, c-jun, Sp-1, Ap-1, Ap-2, p38, p65Rel, MyD88, IRAK, TRAF6, IkB, Inactive NIK, SAP K, SAP-1, INK, interferon response genes, NFkB, Bax, TRAIL, TRAILrec, TRAILrecDRC5, TRAIL-R3, TRAIL-R4, RANK, RANK LIGAND, Ox40, Ox40 LIGAND, NKG2D, MICA, MICB, NKG2A, NKG2B, NKG2C, NKG2E, NKG2F, TAP1, TAP2 and functional fragments thereof.
8. **(Original)** The composition of claim 7 wherein said nucleic acid molecule is a plasmid.
9. **(Original)** The composition of claim 7 wherein said immunogen is a pathogen antigen, a cancer-associated antigen or an antigen linked to cells associated with autoimmune diseases.
10. **(Original)** The composition of claim 9 wherein said immunogen is a pathogen antigen.
11. **(Original)** The composition of claim 10 wherein said immunogen is a herpes simplex antigen.
12. **(Original)** The composition of claim 11 wherein said herpes simplex antigen is HSV2gD.
13. **(Previously presented)** An injectable pharmaceutical composition comprising the composition of claims 1.

14. **(Previously presented)** A method of inducing an immune response in an individual against an immunogen comprising administering to said individual a composition of claims 1.

15. **(Original)** A recombinant vaccine comprising a nucleotide sequence that encodes an immunogen operably linked to regulatory elements, a nucleotide sequence that encodes one or more proteins of selected from the group consisting of: Fos, c-jun, Sp-1, Ap-1, Ap-2, p38, p65Rel, MyD88, IRAK, TRAF6, IkB, Inactive NIK, SAP K, SAP-1, JNK, interferon response genes, NFkB, Bax, TRAIL, TRAILrec, TRAILrecDRC5, TRAIL-R3, TRAIL-R4, RANK, RANK LIGAND, Ox40, Ox40 LIGAND, NKG2D, MICA, MICB, NKG2A, NKG2B, NKG2C, NKG2E, NKG2F, TAP1, TAP2 and functional fragments thereof.

16. **(Original)** The recombinant vaccine of claim 15 wherein said immunogen is a pathogen antigen, a cancer-associated antigen or an antigen linked to cells associated with autoimmune diseases.

17. **(Original)** The recombinant vaccine of claim 16 wherein said immunogen is a pathogen antigen.

18. **(Original)** The recombinant vaccine of claim 17 wherein said recombinant vaccine is a recombinant vaccinia vaccine.

19. **(Original)** A method of inducing an immune response in an individual against an immunogen comprising administering to said individual a recombinant vaccine of claim 17.

20. – 21. **Canceled.**

22. **(New)** The composition of claim 1 wherein the isolated nucleic acid molecule that encodes one or more proteins encodes Ox40 or a functional fragment thereof.

23. (New) The composition of claim 7 wherein the isolated nucleic acid that encodes one or more proteins encodes Ox40 or a functional fragment thereof.

24. (New) The recombinant vaccine of claim 15 wherein the nucleotide sequence that encodes one or more proteins encode Ox40 or a functional fragment thereof.